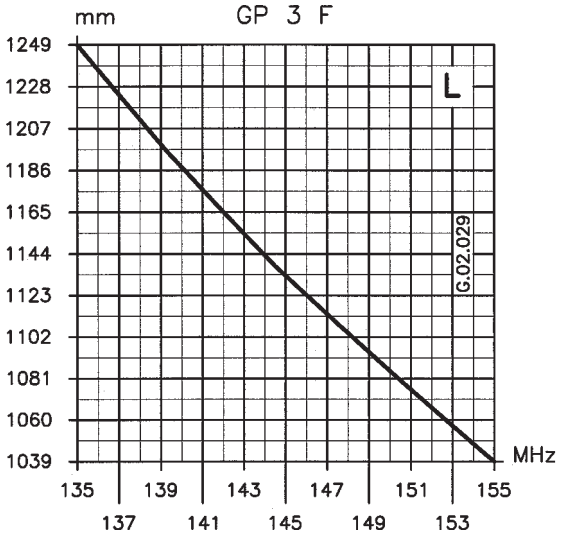
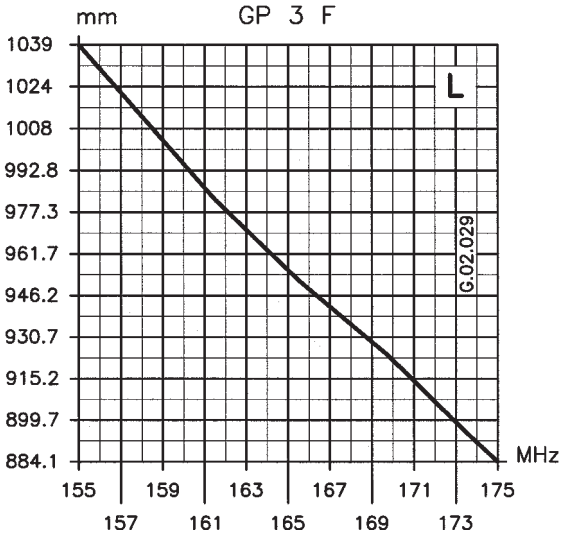
TYPICAL TUNING DIAGRAMS





NOTE:

- *It is recommended to use the curves as a guide and fine-tune using an SWR-Meter.*

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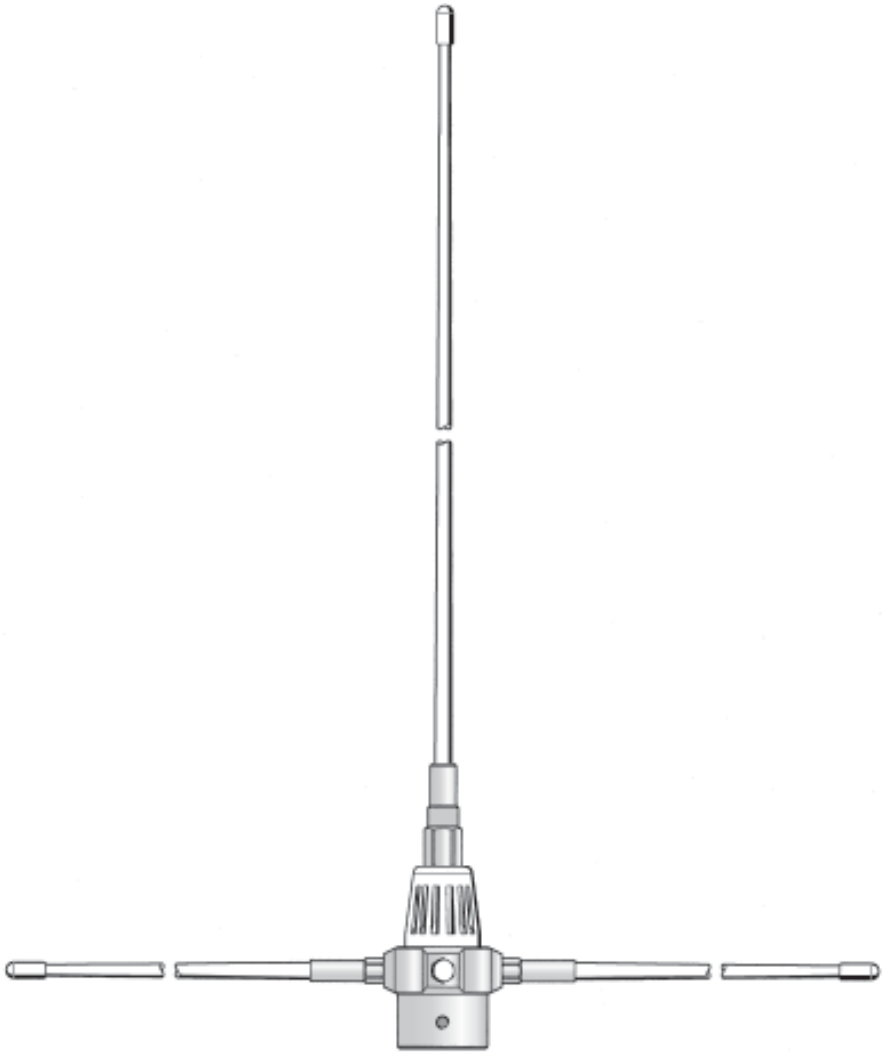
Model GP 3-F

VHF Base Station Antenna 135-175 MHz



Installation Manual

DESCRIPTION

5/8 λ Ground Plane base station antenna for land and marine service. It works on the frequency range of 135-175 MHz by using the cutting diagram enclosed. The matching coil is DC feeded for a perfect protection from the static discharges. GP 3-F is made of fiber-glass and assembled on a very strong base of chromed die-cast metal to get the maximum robustness and the best performance. Tuning is easy by following the attached directions.

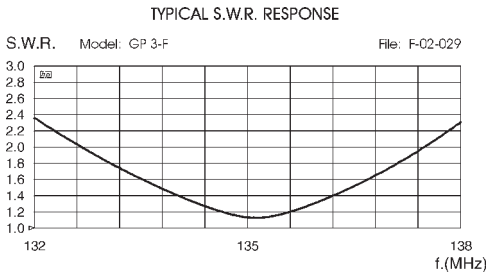
SPECIFICATIONS

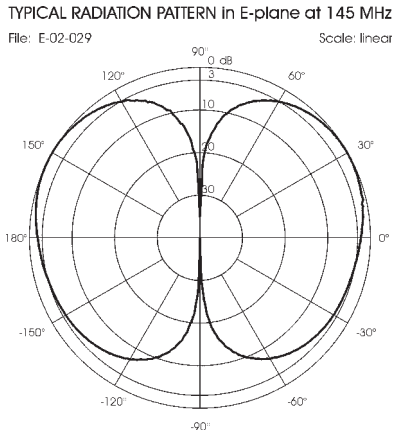
Electrical Data

Type	:	5/8 λ Ground Plane
Frequency Range	:	135-175 MHz tunable by cutting
Impedance	:	50 Ω Unbalanced
Radiation (H-plane)	:	360° Omnidirectional
Radiation (E-plane)	:	Beamwidth at -3 dB = 69°
Radiation angle deg.	:	25°
Polarization	:	Vertical
Gain	:	1.5 dBd - 3.65 dBi
Bandwidth at V.S.W.R. 2:1	:	4.8 MHz at 135 MHz
V.S.W.R. at res. freq.	:	≤ 1.2 : 1 at 135 MHz
Max Power	:	200 Watts
Feed System / Position	:	Transformer DC-Ground / Base
Connection	:	UHF Female

Mechanical Data

Materials	:	Glass Fibre, Nylon, Chromed Brass
Wind Load / Resistance	:	23 N at 150 Km/h / 150 Km/h
Wind Surface	:	0.02 m^2
Height (approx.)	:	1335 mm
Weight (approx.)	:	585 gr
Mounting Mast	:	Ø 25-30 mm





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MOUNTING INSTRUCTIONS